

Abstract

The invention relates to a device for the introduction of an implant (1) into blood vessels of the human body, said device comprising an implant (1), a pusher or insertion wire (14), and a tube-like sheathing (13), wherein the implant (1) is capable of being deformed inside a microcatheter in a manner that allows it to assume a shape of reduced diameter and, after omission of such external constraint exerted by the microcatheter, expand at the placement site and adapt to the blood vessel diameter, and wherein the implant (1) being provided at the proximal end with connection elements (6) attaching it to a retaining element (15) by means of which the implant (1) is coupled to the pusher wire (14), and wherein the retaining element (15) is provided with peripheral cutouts (16) into which the connecting elements (6) are fitted, with the tube-like sheathing (13) being drawn in a form-closed manner over the retaining element (15) with fitted connection elements (6) such that the connection elements (6) are secured within the cutouts (16) of the retaining element (15) and the implant (1) being released by the retraction of the tube-like sheathing (13) in proximal direction, with the outer diameter of the tube-like sheathing (13) varying between the proximal and the distal end. In this manner, high pliability is achieved in some sections of sheathing (13) which is conducive to maneuvering through narrow blood vessels, and, moreover, sufficient tensile strength is available for the purpose of releasing implant (1).

Fig. 9

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